

VEREENIGDE OCTROOIBUREAUX
'S-GRAVENHAGE (HOLLAND)Int. pat. appln. PCT/NL96/00239
our letter of August 21, 1997**ART 34 AMDT**
Ren/PCT 0477Amended claims

1. A recombinant or isolated nucleic acid molecule encoding at least a biologically functional part of a mammalian protein (not being the MDM2 protein) capable of binding to a p53 protein and comprising at least a part of the sequence

5 1 GTGGCTCTTG CGAACTCTGG GTTTGAGAGG CCGGAACCTGG TGCTGCCGTT
 51 GCTCGCAGTT TCAAAATGCA GTGCAGGCCT TAGGGTCTCC GGCTGCCACC
 10 101 CCTCCCCCAG CTAGGAGGGG GAGCGACTCA TGGAGCGGCC GTAAGTTTGC
 15 151 TAACTGTGGA GTCTTCACTG CCAAAATGAC ATCACATTCC ACCTCGGCC
 20 201 AGTGTTCAGC ATCTGACAGT GCTTGCAGAA TTTCTTCGGA ACAAATTAGT
 25 251 CAGGTGGGGC CAAAACGTCA GCTTTGAAG ATTTGCATG CAGCAGGTGC
 30 301 GCAGGGGGAA GTATTCAAC TGAAAGAGGT AATGCACTAT CTAGGCCAGT
 35 351 ATATAATGGT GAAGCAGCTC TATGATCAAC AGGAGCAACA TATGGTATAC
 40 401 TGTGGTGGAG ATCTTTGGG AGATCTACTT GGATGTCAGA GCTTTCTGT
 45 451 GAAAGATCCA AGCCCTCTCT ATGACATGCT AAGAAAGAAT CTTGTTACAT
 50 501 CAGCTTCTAA TAACACAGAT GCTGCTCAGA CTCTCGCTCT CGCACAGGAT
 55 551 CACACTATGG ATTTCACCA TCAAGACCGA CTGAAGCACG GTGCAACAGA
 60 601 ATACTCCAAT CCCAGAAAAA GAACTGAAGA AGAGGATACT CACACACTGC
 65 651 CTACCTCACG ACATAAATGCC AGAGACTCCA GAGCAGATGA AGACTTGATA
 70 701 GAACATTAT CTCAGATGA GACATCTAGG CTTGACCTTG ATTTGAGGA
 75 751 GTGGGACGTT GCTGGCCTGC CTTGGTGGTT TCTAGGGAAT TTGAGAAACA
 80 801 ACTGTATTCC TAAAAGTAAT GGCTCAACTG ATTTACAGAC AAATCAGGAT
 85 851 ATAGGTACTG CCATTGTTTC AGACACTACG GATGATTGT GGTTTTAAA
 90 901 TGAGACCGTG TCAGAGCAAT TAGGTGTTGG AATAAAAGTT GAAGCTGCTA
 95 951 ATTCTGAGCA AACAAAGTCAA GTAGGGAAAA CAAGTAACAA GAAGACGGTG
 100 1001 GAGGTGGGAA AGGATGATGA TCTTGAGGAC TCCAGGTCCCT TGAGCGATGA
 105 1051 TACTGACGTG GAACTTACCT CTGAGGATGA GTGGCAGTGT ACGGAATGCA
 110 1101 AGAAGTTAA TTCTCCAAGC AAGAGGTACT GTTTCGTTG CTGGGCCTTG
 115 1151 AGAAAGGATT GGTATTCGGA TTGTTCTAAA TTAACTCATC CCCTATCTAC
 120 1201 ATCTAATATT ACTGCCATAC CTGAAAAGAA GGACAATGAA GGAATTGATG
 125 1251 TTCCCGATTG TAGGAGAACCT ATTTCAGCTC CTGTTGTTAG GCCTAAAGAT
 130 1301 GGATATTAA AGGAGGAAAA GCCCAGGTTT GACCCTTGCA ACTCAGTGGG
 135 1351 ATTTTTGGAT TTGGCTCATA GTTCTGAAAG CCAGGAGATC ATCTCAAGCG
 140 1401 CGAGAGAACAA AACAGATATT TTTCTGAGC AGAAAGCTGA AACAGAAAGT
 145 1451 ATGGAAGATT TCCAGAATGT CTTGAAGCCG TGTAGCTTAT GTGAAAAAAG
 150 1501 GCCTCGGGAT GGGAACATTA TTCATGGGAA GACCGAGCCAT CTGACGACAT
 155 1551 GTTCCACTG TGCCAGGAGA CTGAAGAAGT CTGGGGCTTC GTGTCCTGT
 160 1601 TGTAAAGAAAG AGATTCAGTT GTTATTAAA GTTTTATAG CATAGTTGAG
 165 1651 TCAGTCACAG AGAAATACTA GGAGGACCAG GTCAATTATC AAAAAAAA
 40 1701 A

or a functional equivalent thereof.

2. A nucleic acid molecule according to claim 1 which is a cDNA.

3. A nucleic acid molecule according to claim 1 or 2, encoding at least a functional part of the human equivalent of the sequence of claim 1.
4. A recombinant vector comprising a nucleic acid molecule according to claims 1-3 together with suitable elements for regulation of replication and/or expression.
5. A recombinant host cell comprising a vector or a nucleic acid molecule according to anyone of the foregoing claims.
6. An isolated or recombinant proteinaceous substance comprising at least a biologically functional part of an amino acid sequence resulting from the translation of a nucleic acid molecule according to any one of claims 1-3, the expression of a vector according to claim 4 and/or the culture of a cell according to claim 5.
- 15 7. A method for the identification of proteins having a binding affinity for p53 comprising the steps of labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.
- 20 8. A method for the identification of nucleic acid molecules encoding proteins having a binding affinity for a p53 protein comprising the steps of expressing said nucleic acid in a suitable expression system, labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.
- 25